

Resource Recovery Corp

Well Logs

Well #	Eolian	Description	Depth range
EE-1		<p><u>Eolian sands</u>: 60% silty sand, light gray very fine to fine, <u>subrounded</u>, well sorted very dry. 35% frosted quartz, fine grain, subrounded, well sorted. 5% surface loam.</p>	0-2
		<p><u>Fine sands</u>: 70% sand, light to dark brown, fine grain, subangular to subrounded, well sorted, semi dry. minerals present include mica, feldspar, hornblende on basalt. 30% frosted quartz, sub angular and medium grain.</p>	2-10
		<p><u>Fine sands</u>: 85% frosted and clear quartz, fine to medium grain, sub angular, well to <u>moderately</u> sorted. 15% sand - light olive brown, fine grain, subrounded to subangular fragments, well sorted, semi dry. 19-20 a layer of <u>hard cemented</u> sand present.</p> <p style="text-align: right;">hard cemented</p>	10-20'
		<p><u>Fine to very fine sand</u>: 50% ^{-dark} fine to yellowish brown, fine to very fine, sub rounded, well sorted, semi dry. 50% minerals present include <u>plagioclase</u> feldspar, <u>pyroxene</u>, hornblende, mica.</p>	20-35'



EE-1 (cont)

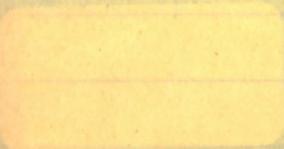
50% frosted quartz, sub angular, medium to fine grain, well sorted.

~~Fine sands: 75% frosted quartz, subangular to subrounded, fine to medium grain, well sorted 25% sand light olive gray fine to very fine, subrounded, well sorted, semi clay. Small pebbles 3-10 mm at 37. Silt content not as high around 10-15%.~~

35-40

~~Medium Sand - 65% frosted quartz, fine to medium, subangular, moderately sorted 35% sand, olive gray, medium fine to medium, moderately sorted, ~~semi clay~~ most angular fragments. Small pebbles sporadically situated.~~

40-50



EE-1 (cont)

Fine sand - 75% clean quartz, subangular medium grain, moderately sorted. 25%

sand - light olive gray, fine grain 35-40
well sorted, subrounded, semi dry.

Very little silt present. 3-10 mm pebbles scattered throughout.

punctation? →

(OP)

medium sand - 65% frosted quartz,

subrounded to subangular, medium grain, 35% sand, dark yellowish 40-50

brown, fine to medium grain, subrounded moderately sorted, minerals include mica,

hornblende, biotite, and feldspar. Small pebbles still sporadically mixed in.

medium to coarse sand - 55% frosted quartz,

subangular to angular, medium to coarse grain, 45% medium sand. - moderate olive 50-55'

brown, medium to coarse grain, poorly sorted, angular to subangular, moist.

^{sand +}
Sandy gravel: 60% gravel, dark gray to black, coarse to very coarse, sub

rounded, poorly sorted, moist, gravel. 55-66

40% frosted quartz, subrounded, medium to coarse grain. Some mica flakes present.

EE-1 (cont)

Gravelly Sand - 70% dark gray to black,
 coarse to very coarse, subrounded, poorly
 sorted, very moist. 30% Sand - dark yellowish
 brown, medium to coarse, subrounded, poorly
 sorted. Approximately 10% of the sand is
 a frosted quartz. The remainder consists
 of the following minerals, feldspar, mica,
 plagioclase, large pebbles and cobbles at
 lower part of the column.

66-88.

Well EE-2

Eolian Sands: 65% silty sand, light gray, fine to very fine, well sorted, subrounded, 0-2 very dry. 35% frothy quartz, fine, subrounded, well sorted, some loam present.

Fine Sand: 65% quartz, frothy, well sorted, fine, ^{35%} light brown to dark brown, silt still present, well sorted, subrounded, semi dry. 2-10 1' layer of cemented sands at 8'. micaceous flakes intermixed. ~~garbage~~ encountered at 2'.

Fine sand: 80% frothy quartz, subangular, well sorted, 20% dark to medium Olive brown, well to medium sorted, 10-40 subangular to subrounded, semi dry. At 30' small pebbles show up. Sparsely mixed in.

Medium to coarse: 50% frothy quartz, coarse, poorly sorted, increasingly moist, sub rounded. 40-50 50% sand, dark Olive brown to dark Olive Gray, medium to coarse, poorly sorted, subrounded to sub angular fragments.

Sandy Gravel: 65% light gray gravel and sand. coarse, subangular to angular, poorly sorted.

EE-2 (cont)

Sand tends to have a dark gray to black color. 25% frosted quartz, angular coarse to very coarse. At 55' sand texture changes to ~~moderately~~ sub rounded, very coarse.

50-60

Gravelly sand: 85%, dark gray to black, coarse, to very coarse, subrounded to rounded, very moist. 15% frosted quartz, angular, poorly sorted. At 65' water encountered - very wet, dark gray gravel. Cobbles and pebbles encountered at 88'.

60-88

EE-3

Folium Sand: ^{60%} Light gray, fine to very fine, well sorted, subrounded, dry. Sand consists of approx. 35-40% silt. mica flakes sparsely intermixed. 0-2 small granules 2mm also present. 40% mixture of frothy and transparent quartz, fine, subangular well sorted.

Fine Sand: ^{60%} frothy quartz, ^{fine} subangular, well sorted. ^{Sand} 40% ¹ light to dark brown, fine, well sorted, semi dry, subrounded. Some 2-10 silt still present approx. ~~10%~~ 10%. major amounts of garbage encountered at 3'. (wood, beer cans, plastic etc.).

Fine to medium sand: ^{Sand} 55% frothy quartz, dusky yellow brown. Fine to medium, moderately sorted, subangular to angular fragments, 10-17' semi dry. Garbage disappears at 17'. 45% frothy quartz, subangular, moderately sorted. Small amounts of mica flakes also present.

Medium Sand: 60% transparent quartz, subangular, moderately sorted, medium grain. ^{Sand} 40% ¹ dark olive brown, medium grain, moderately sorted, sub- 17-20' angular to subrounded, semi dry. Small dark gray gravel granules (2mm) at 20'.

EE-3 (cont)

Fine Sand: 80% frosty quartz, well to moderately sorted, angular to subangular fragments, ~~moist~~, 20% moderate to dark Olive brown, well to moderately sorted fine grain. Small pebbles 4-10mm at 25' and 38'. 20-40

Gravelly Sand: 55% - Dark ~~olive~~ olive gray, moderate to poorly sorted, Angular to subangular fragments. Gravel tends to be dark gray to black giving ~~white~~ rather a salt and pepper look. Moist to ~~very moist~~, ~~Irregularly~~ coarse at 55'. 40-50'

Coarse Gravel sand: 70%⁺ dark gray to black, coarse grain, subrounded, ~~poorly~~ poorly sorted, very moist gravel. ~~3%~~ frosty 10-15mm small pebbles at 57'. 30% frosty quartz, subangular to subrounded, poorly sorted and very coarse. Flouing sands at 64'. Gravel ~~tends to be~~ app. 3mmⁱⁿ size 50-87'.

EE-4

Folien Sand: 65% silty sand, light gray fine to very fine grain, well sorted, some subrounded granules. Very clay. 0-2'

Surface loam also present in first foot. 35% combination of frosty and clean quartz, subrounded to subangular, well sorted.

Fine sand: 65% frosty quartz, subangular, medium to fine grain. 35% DARK yellowish brown, fine to medium grain, moderately sorted, small granules at 8'. Sand is comprised of feldspar, mica, and hornblend on basalt. 13-14 a layer of cemented sand, and followed by increasingly coarse sand. 10-18'

Coarse sand: 50% frosty quartz, medium ~~olive~~ olive gray, poorly sorted, traces of gravel present, 18-20 subangular, small pebbles 5-8 mm in size present.

Medium sand: 45% frosty quartz, ^{55%} dusky yellowish brown sand, medium to coarse grain, moderate to poorly sorted, angular to subangular fragments, 20-30' some gravel at 26'. Gravel tends to be dark bluish gray and coarse grain. Gravel no longer present at 30'.

EE-4 (cont)

Sandy Gravel: 55% light to moderate brown, medium to coarse, subangular, moderately to poorly sorted, semi dry sand and gravel. 45% frothy ~~quartz~~ angular, coarse quartz grains. 30-35'

Gravelly Sand: 70% olive gray to dark gray, coarse to very coarse, angular to sub angular, poorly sorted, ~~very~~ moist to very moist gravel and sand. Gravel tends to be subangular, coarse, ~~and~~ and dominant % . 30% frothy, subangular, coarse quartz. 35-45'

~~last~~ Gravelly

⁸⁰
Gravel: ~~70~~ 80% dark gray to black, coarse to very coarse, poorly sorted, wet, flowing gravel. 45-72'
small % of sand is mixed in that is ^{also} poorly sorted ~~also~~ . 30% frothy quartz. Pebbles and small cobbles at 60'.

EE-5-b

Folium Sand: 70% silty sand, ^{light to medium gray} very fine, well sorted, dry, ~~artificial~~ loam ~~is~~ present, 30% clean and frothy quartz, subrounded fragments. 0-2

Fine Sand: 50% frothy quartz, subrounded to sub angular, medium grain. 50% light to dark brown, fine to very fine, well to moderately sorted, sand. 2-10'

Fine sand: 70% mixture of frothy and clear quartz, subangular, medium grain. 30% dark olive brown, fine, subangular, fine to medium sorted, semi dry sand. ~~micaceous~~ flakes also present. 10-20'

Medium sand: 60% frothy quartz, subangular medium to coarse grain. 40% ^{olive gray} ~~dark gray brown~~ fine to medium grain, poorly to moderately sorted, semi dry sand, changing to a ~~dusky~~ olive gray at 35' and becoming increasingly coarse. Gravel and small pebbles 6-15mm at 38'. 20-40'

Sandy Gravel: 70% sand and gravel, dark olive gray to gray, coarse ~~to very~~ coarse, poorly sorted, ~~is~~ moist. ~~sand~~ 10mm pebbles ~~is~~ 10mm. 40-50

EE-5-b (cont)

Pebbles also present (10mm). 30%
frosty, subangular, coarse grain quartz.

Gravelly sand: 75% dark gray to black,
coarse to very coarse, angular to
sub angular, moist, gravel and sand. 50-57'
Gravel tends to be dominant portion
of the two. 25% frosty quartz.

Gravel: 80% dark black, very coarse,
angular, poorly sorted, saturated
gravel. Flowing occurs at 57-58'. 57-75'
20% combination of frosty quartz
and a dark gray ^{coarse} sand. Cobble
and pebbles sporadically mixed in.
Tend to be semi rounded.

EE-6 Edwin Sands: 70% light to medium gray, fine to very fine, well sorted, dry silty sand. 30% combination of frothy and transparent quartz. Some surficial loam also found. 0-2'

Fine Sand - 50-60% light to medium brown, well sorted, fine to very fine grain sand. Some silt in upper portion of the zone. Large ^{amounts of} pebbles and cobbles encountered at 3' to 6'. 2-10'

Fine to medium sand: ^{40-35%} Dark yellowish to olive brown, fine to medium grain, well to moderately sorted, sub rounded to sub angular, semi dry sand. some cemented layers of sands present. 4-6 mm pebbles encountered at lower portion of this zone. 65-80% frothy quartz, medium to coarse grain, subangular to subrounded. 10-40'

medium to coarse sand: 65% frothy quartz, coarse to very coarse grain, subangular fragments. 35% Dark Olive Gray, medium to coarse grain, moderately to poorly sorted, angular to sub angular fragments. Some moisture in sand. 40-50'

Sandy Gravel Coarse sand 50% frothy quartz, ^{50%} Dark Olive Gray Gray coarse, poorly sorted, sub angular to subrounded, semi-dry sand. Gravel is a Dark Gray to Black, sub angular, coarse to very coarse gravel. sporadically 50-60'

EE-6-

mixed in one seams of a fine silty clay.
Small granules and pebbles also encountered
at 58'.

Gravelly Sand: 60% Dark Gray to Black, coarse
to very coarse, poorly sorted, subangular to
angular fragments, most gravel. 40% combination 60-75
of frothy, subangular, coarse grain quartz and
dark olive gray, coarse grain poorly sorted sand.
10-20mm pebbles present throughout ^{the} zone.

Gravel ^{80%} - 1 Dark gray to Black, ~~a~~ very coarse grain,
~~sub~~ angular, saturated, very poorly sorted. 75-100'
20% combination of sand and frothy quartz.
Takes on salt and pepper appearance. Great
amount of flow going on.

EE-7

Elkton Sands: 60% light gray, very fine, well sorted, dry silty sand. Surficial loam and debris present. 0-2
40% frothy and transparent quartz, sub rounded, fine grain well sorted.

silty Fine sand: 55% light ^{to medium} brown, fine to very fine, well sorted sand. Some silt present. Sand tends to be semi dry with well rounded grains. 2-10'
45% frothy, subangular, moderately sorted quartz. b'g fill material encountered (old car parts, glass, wood etc.).

Fine sand: 75% frothy quartz ^{25%} dark to moderate olive brown, fine to ~~medium~~ grain, subangular to sub rounded particles. Sand tends to be ~~well~~ ^{moderately} sorted, and semi dry with 1-2mm granules evident at 14' level. ~~massive~~ micaeous flakes are also encountered at 16'.

Fine to medium sand: 80% frothy quartz, moderately sorted, medium grain ^{sub rounded}, subangular fragments, 20% dark to moderate olive brown, medium ^{to fine} grain, subangular to sub rounded particles. Semi dry small pebbles (6-10mm) at 28'. Cemented sand layer encountered at 36-38'.

EE-7 (cont)

Sandy gravel - 60-40% chunky quartz, subangular to subrounded, moderate to coarse, poorly sorted. 40-60% sandy gravel, Grayish olive brown, medium to coarse, subangular to subrounded, poorly sorted. Changing to dark grayish brown, coarse angular fragments. at 50'. Small pebbles (10-15 mm) present at 58 level.

40-70

Gravelly sand - 70% dark gray to black, coarse to very coarse, poorly sorted, angular fragments, very moist. Pebbles and small cobbles encountered at 66'. 30% frosty, angular, coarse 70-101 poorly sorted quartz. Flowing sands at 76'. Gravel is subrounded to subangular and very coarse. Overall view of material has salt and pepper look.

EE-8 Eolian sands: 60% light to medium gray, very fine, well sorted, dry, silty sand. Surface loam throughout first 2', 40% combination of frothy and transparent quartz. Intermixed with large mica flakes. 0-2'

Very fine to fine sand: 50% light to dark brown fine grain, well sorted, sub rounded, semi clay sand. Some silt present, small pebbles also encountered at 7'. 50% frothy, subangular, fine to medium, moderately sorted quartz. 2-10'

Fine Sand: 80% frothy quartz, subangular, moderately sorted. 20% moderate olive brown fine grain, subrounded to subangular, well sorted, semi clay sand. Changing to a medium to fine grain, moderately sorted sand at 18'.

Fine to medium ~~fine to very fine sand~~ - 70% frothy quartz, subangular fine to medium grain, 30% moderate to dark olive brown fine to medium grain, well to moderately sorted, semi dry sand, angular to subangular fragments. 1-2' lenses of cemented sands found at various depths throughout. Small pebbles ^{layers} found at 35', 47 and 50'. Becoming poorly sorted and more coarse at 49'.

EE-8 (cont)

Sandy Gravel: 60% dark grayish brown to black, coarse to very coarse grain, poorly sorted, subangular to subrounded, moist sand. Pebbles at 54 (4-6 mm). Changes to dusky yellow brown sand at 60/w. Pebbles increasing to (10-20 mm) and more frequent 40% frothy quartz, subangular, poorly sorted, small to medium grain. 50-70'

Gravelly Sand. 75% dusky grayish brown to dark grayish black, coarse to very coarse, subangular to angular, poorly sorted, very moist gravelly sand. Pebbles ranging from 10-40 mm, Flaming Sands, becoming increasingly dark with depth. and moist. Sand and gravel do not change much from 80-100'. 70-100'

EE-9

Coarse Sands: 60% light to medium gray, fine to very fine grain, well sorted, dry, subrounded silty sand. 40% combination of frothy and translucent 0-2 quartz, subangular to subrounded, medium grain.

Fine sand 60% light to dark brown, fine to medium grain, well sorted, semi dry subangular sand. Large pebbles and fill material encountered at 6'. Then returns to fine ~~grain~~ sand, ^{from} 8-10'. 40% frothy quartz, angular, medium grain, moderately sorted. 2-10'

Fine sand: 75% frothy quartz, subangular, moderately sorted, medium to coarse grain. 25% dark to moderate olive brown, sub angular to subrounded, well sorted, 10-30 semi dry, fine to medium grain sand. Large mica flakes intermixed in the sand matrix. Pebble 4-10 mm also encountered at 18'. Some cemented sands sporadically encountered at various depths.

medium sand: 65% frothy quartz, subangular to angular, coarse grain, 35% moderate olive brown, medium to coarse ^{grain}, moderately to 30-50'

EE-9 (cont)

poorly sorted, subrounded sand. Large amounts of cemented sand at 35' and 44'. Changing to a ~~medium~~ more coarse grain at 50'.

Coarse sand - 55% dark gray, coarse, subrounded, poorly sorted, moist, 50-60' sand. Small amounts of gravel present at 55'. Gravel tends to be subrounded and uniform in size. Small pebbles also found at around 55' ranging in size of (5-8mm). Becoming very coarse at 58'.

45% frosty, coarse, angular, quartz
Sandy Gravel - 60% dark gray to black, coarse to very coarse, subangular, poorly sorted, very moist sandy gravel. 40% frosty, very coarse, angular, poorly sorted quartz. 60-70

Gravelly sand - 70% dark gray to black, angular fragments, very poorly sorted, very moist to saturated, Gravel and sand. Gravel tends to be subrounded 3-5mm ~~size~~ and uniform in size. Cobbles and pebbles encountered at 85' and present through 100'. 30% frosty, angular, poorly sorted and coarse quartz. Flowing sands at 77' and Gravelly sand takes on Salt and Pepper look to it. 70-100